

**पोलीस कर्मचा-यांच्या गणवेश, गणवेश साहित्य व
कीट सरंजाम यात बदल करणेबाबत.**

महाराष्ट्र शासन

गृह विभाग

शासन निर्णय, क्रमांक युएनएफ ०९०७/प्र.क्र.४८२/पोल-४.

मंत्रालय, मुंबई ४०० ०३२, दिनांक २९ फेब्रुवारी, २००८.

वाचा - १) मुंबई पोलीस मॅन्युअल १९५९ चा खंड-१ व खंड-२,

२) शासन निर्णय, गृह विभाग, क्र. युएनएफ ०२७९/४८७७/पोल-४, दि.२९.३.१९७९.

३) शासन निर्णय, गृह विभाग, क्र. युएनएफ ०४७४/२/पोल-४, दि.३१.८.१९८२.

४) शासन निर्णय, गृह विभाग, क्र. युएनएफ ०३८७/१३९६/पोल-४, दि.३०.६.१९८८.

५) अपर पोलीस महासंचालक (नि व स) यांचे अ.शा.पत्र क्र.पोमसं/१८/३०/ (२००५)/

गणवेश साहित्य, दि.४.९.२००७

६) पोलीस महासंचालनालयाचे पत्र क्र.पोमसं/१८/३०/२००५/गणवेश साहित्य, दि.१३.९.२००७.

प्रस्तावना

मुंबई पोलीस नियमावली, १९५९ च्या खंड-१ व खंड २ च्या परिशिष्ट-२ व परिशिष्ट-३ मध्ये पोलीस अधिकारी व कर्मचाऱ्यांसाठी गणवेश विहित करण्यात आलेला आहे. मुंबई पोलीस कायदा, १९५९ च्या कलम ३ मध्ये विहित केल्यानुसार एक पोलीसदल असे कायदेशीर तत्त्व प्रतीत होण्याच्या उद्देशाने बृहन्मुंबई पोलीस दल व मुफस्सल पोलीस दल यांच्या गणवेष्टातील फरक दूर करून एकसारखा गणवेश शासन निर्णय, दिनांक २९.३.१९७९ अन्वये विहित करण्यात आला. शासन निर्णय, दिनांक ३१.८.१९८२ अन्वये राज्याच्या पोलीस दलातील महिला पोलीस अधिकारी व पोलीसदलासाठी असलेल्या गणवेशामध्ये बदल करण्यात आला व शासन निर्णय दिनांक ३०.६.१९८८ अन्वये महिला पोलीस शिपाईदल यांच्या गणवेशामध्ये किरकोळ बदल करण्यात आला. उपरोक्त मुंबई पोलीस नियमावली व शासन निर्णयांद्वारे विहित केलेल्या पोलीस गणवेष्टाच्या एकूण १०७ बाबी मंजूर आहेत.

पोलीस शिपाईदलाच्या सध्याच्या गणवेष्टाच्या बाबी ब-याच कालावधीपूर्वी विहित केलेल्या आहेत. त्यामध्ये बदलत्या परिस्थितीअनुरूप तसेच कायदा व सुव्यवस्थेचा प्रश्न हाताळण्याच्या पध्दतीमध्ये झालेल्या बदलाअनुरूप काही बाबी निरुपयोगी ठरलेल्या आहेत, काहीमध्ये बदल करणे तर काही नवीन बाबींचा समावेश करणे गरजेचे असल्याचे निदर्शनास आल्यानंतर पोलीस महासंचालनालयाने प्रत्येक बाबीची गरज, त्यामध्ये आवश्यक असलेला बदल किंवा तिचे निरुपयोगी ठरणे यावर अभ्यास करून गणवेष्टामध्ये बदल करण्यासाठी केलेला प्रस्ताव शासनाच्या विचाराधीन होता.

शासन निर्णय

पोलीस महासंचालकांनी राज्याच्या पोलीस दलातील पोलीस शिपाई ते सहाय्यक पोलीस उप निरीक्षक यांच्या गणवेश, गणवेश साहित्य व कीट सरंजामात बदल करण्याच्या सादर केलेल्या प्रस्तावाचा विचार करून शासनाने पुढीलप्रमाणे निर्णय घेतला आहे:-

१) सध्या अस्तित्वात असलेल्या गणवेष्टाच्या एकूण १०७ बाबींपैकी ;

अ) सोबतच्या जोडपत्र-१ मधील ४७ बाबी रद्द करण्यात येत आहेत.

ब) सोबतच्या जोडपत्र-२ मध्ये नमूद केल्यानुसार ३२ बाबीमध्ये अंशतः बदल करण्यात येत आहे.

क) सोबतच्या जोडपत्र-३ मधील १४ बाबीमध्ये कोणताही बदल न करता त्या तशाच पुढे चालू

ठेवण्यात येत आहेत.

२) सोबतच्या जोडपत्र-४ मध्ये नमूद केल्यानुसार गणवेशाच्या १० बाबींचा नव्याने समावेश करण्यात येत आहे.
या शासन निर्णयासोबतच्या अंतिमतः मान्य राहणा-या गणवेशाच्या ५६ बाबी, त्यांचे प्रमाण व त्यांच्या पोलीस महासंचालनालयाचे विहित केलेल्या विनिर्दिष्ट परिशिष्ट -१ मध्ये नमूद केल्याप्रमाणे राहतील.

२. या शासन निर्णयासोबतच्या जोडपत्र-१ ते ४ मधील गणवेशाच्या बाबी, त्यांचे प्रमाण व विनिर्दिष्ट यांचा पोलीस महासंचालकांनी दुरुस्ती चिठ्ठीद्वारे पोलीस नियमावलीमध्ये समावेश करावा.

३. सध्या देण्यात आलेल्या गणवेशाच्या बाबींचा विहित कालावधी संपल्यानंतर त्यापुढील कालावधीत त्या या शासन निर्णयाद्वारे विहित केल्यानुसार देय राहतील.

४. सदर शासन निर्णय, वित्त विभागाच्या अनौपचारिक संदर्भ क्र.सीआर-२७४/०७/व्यय-७, दिनांक ११.१०.२००७ अन्वये दिलेल्या मान्यतेने निर्गमित करण्यात येत आहे.

५. सदर शासन निर्णय राज्य शासनाच्या वेबसाईटवर उपलब्ध करण्यात आला असून त्याचा संगणक संकेतांक क्र.२००८०२२८११४८४२००१ असा आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,


(सदाशिव शिवदास)

सह सचिव, गृह विभाग, महाराष्ट्र शासन.

प्रति,

पोलीस महासंचालक, महाराष्ट्र राज्य, मुंबई.

पोलीस आयुक्त, बृहन्मुंबई.

कारागृह महानिरीक्षक, पुणे.

संचालक, उद्योग संचालनालय, महाराष्ट्र राज्य मुंबई

महाराष्ट्राचे लेखापाल १/२ (लेखा व अनुज्ञेयता व लेखा परीक्षा), मुंबई / नागपूर.

अधिदान व लेखा अधिकारी, मुंबई.

निवासी लेखा परीक्षा अधिकारी, मुंबई.

सर्व सह सचिव/ उप सचिव/ अवर सचिव / कक्ष अधिकारी, गृह विभाग, मंत्रालय, मुंबई ३२.

वित्त विभाग (व्यय-७) मंत्रालय, मुंबई.

त्रिवंड नस्ती, पोल-४.

शासन निर्णय, क्रमांक युएनएफ ०९०७/प्र.क्र.४८२/पोल-४, दिनांक २९ फेब्रुवारी, २००८ सोबतचे

जोडपत्र-१

गणवेश, गणवेश सहित्य व कीट सरंजामातील वगळण्यात आलेल्या बाबी

अ. क्र.	गणवेश साहित्य	तरतूद / नियम	अ. क्र.	गणवेश साहित्य	तरतूद / नियम
१	कोट	मुंबई पोलीस नियमावली	२५	पठणी टाईप चप्पल	मुंबई पोलीस नियमावली
२	ट्रॅफिक कोट	मुंबई पोलीस नियमावली	२६	रिबन	मुंबई पोलीस नियमावली
३	ब्रोच बयक्कल नंबर	मुंबई पोलीस नियमावली	२७	बोपीन्स	मुंबई पोलीस नियमावली
४	ब्रोच डिस्ट्रिक्ट लेटर्स	मुंबई पोलीस नियमावली	२८	ब्लॅक हेअर नेट	मुंबई पोलीस नियमावली
५	पट्टीज बुलन	मुंबई पोलीस नियमावली	२९	दुपट्टा	मुंबई पोलीस नियमावली
६	चप्पल	मुंबई पोलीस नियमावली	३०	टेरन कॉटन शर्ट फुल स्लिव	शा.नि. दि. २९.३.१९७९
७	काळे बुट पोलीश	मुंबई पोलीस नियमावली	३१	ब्लॅक बयक्कल शूज	शा.नि. दि. २९.३.१९७९
८	सॉई	मुंबई पोलीस नियमावली	३२	खाकी बुलन सोक्स	शा.नि. दि. २९.३.१९७९
९	सॉई नेट	मुंबई पोलीस नियमावली	३३	वेब बेल्ट फॉर एमटी ड्रायव्हर्स	शा.नि. दि. २९.३.१९७९
१०	स्कॅबर्ड	मुंबई पोलीस नियमावली	३४	खाकी टेरीन कॉटन बुश शर्ट	शा.नि. दि. ३१.८.१९८२
११	ग्रेटकोट स्ट्रॅप	मुंबई पोलीस नियमावली	३५	खाकी टेरीन कॉटन ट्राऊझर	शा.नि. दि. ३१.८.१९८२
१२	होलस्टर	मुंबई पोलीस नियमावली	३६	मायक्रो रबर फ्लॅट हिल शूज	शा.नि. दि. ३१.८.१९८२
१३	होस टोप्स	मुंबई पोलीस नियमावली	३७	नंबर प्लेट	शा.नि. दि. ३१.८.१९८२
१४	बटन स्टीक्स	मुंबई पोलीस नियमावली	३८	खाकी बुश शर्ट अँड फुल पॅन्ट फॉर एस.आर.पी.एफ.	शा.नि. दि. २९.३.१९७९
१५	पाउचेंस	मुंबई पोलीस नियमावली	३९	रायफल स्लिंग	मुंबई पोलीस नियमावली
१६	बेनोट फ्रॉग	मुंबई पोलीस नियमावली	४०	वेब वेस्ट बेल्ट ब्लॅक फॉर एस.आर.पी.एफ. मेन	मुंबई पोलीस नियमावली
१७	बॅटन हुक्स	मुंबई पोलीस नियमावली	४१	पाउचेंस बेसिक वेब बॅक पॅक (एस.आर.पी.एफ.)	मुंबई पोलीस नियमावली
१८	फटींग सूट	मुंबई पोलीस नियमावली	४२	पॅक्स वेब ब्लॅक	-
१९	ट्रॅफिक अम्ब्रेला	मुंबई पोलीस नियमावली	४३	वेब स्ट्रॅप शोल्डर	-
२०	ब्रासेस फॉर ट्रॅफिक अम्ब्रेला	मुंबई पोलीस नियमावली	४४	वेब स्ट्रॅप सपोर्टिंग	-
२१	बार सोप	मुंबई पोलीस नियमावली	४५	वेब ब्रासेस	-
२२	सॅंडल सोप	मुंबई पोलीस नियमावली	४६	वेब पाउच ब्लॅक	-
२३	स्नॅक्स	मुंबई पोलीस नियमावली	४७	एस.आर.पी.एफ. बॅज	-
२४	सलवार	मुंबई पोलीस नियमावली			

शासन निर्णय, क्रमांक युएनएफ ०९०७/प्र.क्र.४८२/पोल-४, दिनांक २९ फेब्रुवारी, २००८ सोबतचे

जोडपत्र-२

गणवेश, गणवेश सहित्य व कीट सरंजामातील अंशतः बदल केलेल्या बाबी.

अ. क्र	सध्याच्या बाबी	नियम / शा.नि.दिनांक	कालावधी व प्रमाण	प्रस्तावित बाबी	कालावधी व प्रमाण
१	बॅजेस् बी.पी.	मु.पो.नि.	२ नग, वापराप्रमाणे	शॉल्डर बॅज म.पो.सह	२ जोडी ५ वर्ष
२	चेव्हरान्स	मु.पो.नि.	आवश्यकतेनुसार	चेव्हरान्स ऑन शॉल्डर पन्नेस	पोलीस नाइक २ स्ट्रीप, पोलीस हवालदार ३ स्ट्रीप, १ वर्ष
३	क्रेस्ट (फक्त फर्स्ट ग्रेड पोलीस हेडकॉन्स्टेबल आणि ब्रेवेट जमादाराकरीता)	मु.पो.नि.	२ नग आवश्यकतेनुसार	क्रेस्ट फॉर हेड गिअर	२ नग १ वर्ष
४	सॅम ब्राउन बेल्ट	मु.पो.नि.	१ नग ५ वर्ष	क्रॉस बेल्ट स्ट्रिप (बहुउद्देशीय पट्ट्याला हुकने जोडण्यासाठी)	१ नग ३ वर्ष
५	वेस्ट बेल्ट लेदर	मु.पो.नि.	१ नग ५ वर्ष	बहुउद्देशीय पट्टा	१ नग ३ वर्ष
६	व्हिसल विथ चैन	मु.पो.नि.	१ नग वापराप्रमाणे	खाकी व्हिसल कॉर्ड / काळी व्हिसल कॉर्ड व्हिसलसह (एसआरपीएफ.)	२ नग २ वर्ष व्हिसल १ नग - २ वर्ष
७	शॉर्टस	मु.पो.नि.	ऑरमोरसकरीता २ आणि इतर व्यक्तीसाठी ३, -२ वर्ष	खाकी शॉर्टस	प्रशिक्षणासाठी आणि एसआरपीएफ. साठी २ आणि इतर पोलीसांसाठी १, १ वर्ष
८	काळे बूट	मु.पो.नि.	हत्थारी पोलीसांसाठी २ जोडी आणि बिनहत्थारीसाठी १ जोडी	ऑक्सफर्ड शूज (काळे)	१ नग १ वर्ष
९	ग्रेटकोट	मु.पो.नि.	१ नग १० वर्ष	खाकी वूलन जॅकेट फुल स्लीव	१ नग ५ वर्ष
१०	शर्टस् (जमादार आणि ब्रेवेट जमादार करीता)	मु.पो.नि.	२ नग १ वर्ष	खाकी हाफ शर्टस आणि ट्राऊझर्स (वर्किंग युनिफॉर्म)	२ संच १ वर्ष
	शर्टस हाफ स्लीव	मु.पो.नि.	आर्मर्स १ नग - २ वर्ष मुंबई ३ नग - ४ वर्ष ग्रामीण २ नग - २ वर्ष		
	टेरीन कॉटन ट्राऊझर्स	२९.३.१९७९	मुंबई पोलीसांसाठी ३ नग, ४ वर्ष		
११	कार्पेट	मु.पो.नि.	१ नग ७ वर्ष	कार्पेट (संतरजी दरो)	१ नग ५ वर्ष
१२	हॅवर सॅक	मु.पो.नि.	१ नग ३ वर्ष	हॅवर सॅक (पिट्ट) (एस.आर.पी.एफ. / एस.ओ.जी. / नक्षत्रप्रस्त भागातील पोलीस कर्मचाऱ्यांसाठी)	१ नग ३ वर्ष

१३	जर्सी	मु.पो.नि.	१ नग ५ वर्ष	खाकी वुलन जर्सी	१ नग ३ वर्ष
१४	वॉटर बॉटल्स फक्त हत्यारी पोलीसांसाठी	मु.पो.नि.	१ नग वापरानुसार	वॉटर बॉटल्स (सर्वांसाठी)	१ नग वापरानुसार
१५	कॅनवॉस शुज ब्राऊन	मु.पो.नि.	२ जोडी १ वर्ष	पीटो शुज ब्राऊन, व्हाइट	१ वर्ष i) प्रशिक्षणार्थी / रा.रा.पो.बल २ ब्राऊन इतरांसाठी -१ ii) व्हाइट सर्वांसाठी-१
१६	सिंगलेट	मु.पो.नि.	२ नग ६ महिन्यांसाठी	सिंगलेट	१ वर्ष-प्रशिक्षणार्थीसाठी ४, इतरांसाठी २
१७	वॉटर प्रूफ कोट (खाकी)	मु.पो.नि.	१ नग एस्कॉर्ट ३ वर्ष मेकॅनिक व ड्रायव्हर २ वर्ष	रेनकोट शर्ट व पॅन्ट (खाकी) (yellow सर्व traffic constables / naxalas / white SRPF	१ नग ३ वर्ष
	वॉटर प्रूफ कोट व्हाइट ट्रॅफिक ड्युटीसाठी	मु.पो.नि.	१ नग ३ वर्ष		
१८	मॉस्किटो नेट (फक्त मलेरियाग्रस्त क्षेत्रासाठी)	मु.पो.नि.	विवाहीत २ अविवाहीत १ अडीच वर्षे	मॉस्किटो नेट	१ नग २ वर्ष
१९	बुशर्टस (महिला हेडकॉन्स्टेबल व कॉन्स्टेबलसाठी)	मु.पो.नि.	३ जोडी, १ वर्ष	बुश शर्टस आणि ट्राऊझर्स पोलीस महिलांसाठी	२ संच, १ वर्ष
२०	कॅप (महिला हेडकॉन्स्टेबल व कॉन्स्टेबलसाठी)	मु.पो.नि.	२ जोडी, १ वर्ष	बॅरेट कॅप ब्लू	२ नग, १ वर्ष
२१	गम बुट	२९.३. १९९९	१ जोड १ वर्ष	गम बुट ब्लॅक -अॅन्कल साईट	१ जोडी १ वर्ष
२२	खाकी नॉयलॉन सॉक्स	२९.३. १९७९	१ जोड १ वर्ष	सॉक्स ब्लॅक	३ जोडी १ वर्ष
२३	अॅन्कलेट खाकी कलर	२९.३. १९७९	१ नग १ वर्ष	अॅन्कलेट वेब ब्लॅक	१ जोडी १ वर्ष
२४	अॅम्बुनेशन बुट	२९.३. १९७९	१ नग ३ वर्ष	लेदर अॅन्कल शुज	१ जोडी १ वर्ष
२५	व्हाइट ड्रॉल शर्ट	२९.३. १९७९	३ नग १ वर्ष	व्हाइट शर्ट फुल स्लीव फॉर ट्रॅफिक	४ नग १ वर्ष
२६	खाकी बॅरेट	३१.८.१९८२	१ नग, ४ वर्ष	बॅरेट कॅप ब्लू	२ नग, १ वर्ष
२७	खाकी टेरिकॉट साडी	३१.८.१९८२	४ नग, २ वर्ष	खाकी टेरिकॉट साडी	गर्भवती महिलांसाठी फक्त
२८	खाकी कॉटन पेटीकोट	३१.८.१९८२	४ नग, २ वर्ष	खाकी कॉटन पेटीकोट	त्या कालावधीसाठी रु.८००
२९	खाकी टेरिकॉट ब्लाउज	मु.पो.नि.	४ नग, २ वर्ष	खाकी टेरिकॉट ब्लाउज	एवढा भत्ता २ नग-१ वर्ष,
३०	ब्लॅकेट	३१.८.१९८२	१ नग, ५ वर्ष	ब्लॅकेट डाके ब्लू	१ नग, ५ वर्ष
३१	जंगल बुट	३१.८.१९८२	१ जोडी, १ वर्ष	पेट्रोलिंग शुज	१ जोडी २ वर्ष
३२	केन लाठी	मु.पो.नि.	१ नग	लाठी	१ नग, ५ वर्ष

मु.पो.नि. -मुंबई पोलीस नियमावली

शासन निर्णय, क्रमांक युएनएफ ०९०७/प्र.क्र.४८२/पोल-४, दिनांक २९ फेब्रुवारी, २००८ सोबतचे

जोडपत्र-३

गणवेश, गणवेश सहित्य व कीट सरंजामातील सध्या देय असलेल्या व

कोणताही बदल न करता पुढे चालू राहणाऱ्या बाबी

अ.क्र.	गणवेश साहित्य	नियम/ शा.नि. दिनांक	कालावधी व प्रमाण
१	फटींग कॅप	मु.पो.नि.	२ नग, १ वर्ष
२	कॅप बटन्स	मु.पो.नि.	२ जोडी १ वर्ष
३	मॅडल रिबन (अनुज्ञेय असेल तेव्हा)	मु.पो.नि.	१ नग गरजेनुसार
४	किट बॉक्स	मु.पो.नि.	१ नग १५ वर्ष
५	वुलन सॉक्स	२९.३.१९७९	२ जोडी - १ वर्ष
६	बॉयलर सूट	मु.पो.नि.	२ नग १ वर्ष
७	डांगरी सूट	मु.पो.नि.	२ नग, १ वर्ष
८	बक्कल प्लेट विथ बक्कल नंबर आणि युनिट नंबर	२९.३.१९७९	१ नग, ३० वर्ष
९	ग्राऊंड शीट	-	१ नग, ३ वर्ष
१०	बॅजस फॉर वायरलेस पोलिसांमेन	मु.पो.नि.	१ नग गरजेप्रमाणे
११	टिफिन बॉक्स	-	१ नग, ४ वर्ष
१२	एअर बॅग	-	१ नग, ५ वर्ष
१३	ऑक्टॅगल क्लॉथ बॅग	-	३ नग, १ वर्ष
१४	एम.टी. आर्म बॅग	-	वापरानुसार

शासन निर्णय, क्रमांक युएनएफ ०९०७/प्र.क्र.४८२/पोल-४, दिनांक २९ फेब्रुवारी, २००८ सोबतचे

जोडपत्र-४

गणवेश, गणवेश सहित्य व कीट सरंजामात नव्याने समाविष्ट बाबी

अ.क्र.	गणवेश साहित्य	कालावधी व प्रमाण
१	अॅगोला शर्ट अँड पॅन्ट	१ जोडी, २ वर्ष
२	जंगल कॅप	१ नग १ वर्ष
३	खाकी / कॅमोफ्लॉज डांगरी	एस.आर.पी.एफ. - १ नग, नक्षल व एस.ओ.जी.साठी २ नग-१ वर्ष
४	स्लिपिंग बॅग	१ नग २ वर्ष
५	कॉटन टी शर्ट (महिलांसाठी)	प्रशिक्षणार्थीसाठी २, इतरांसाठी १ वर्ष
६	आर्म बॅग	२ नग, १ वर्ष
७	रिबन लाल आणि निळी	२ जोडी, २ वर्ष
८	नेम प्लेट	२ जोडी, २ वर्ष
९	फाइव्ह पॉइन्टेड स्टार	२ जोडी, २ वर्ष
१०	स्पोर्ट्स ट्राऊझर- महिलांसाठी	प्रशिक्षणार्थीसाठी २ नग आणि इतर १ नग - १ वर्ष

Annexure - 1
GR. No. UNF 0907/ C.R.482/ Pol -4 dated 29th February 2008

Sr. No	Name of Article	Scale	Expected Life of Article	Specifications of the Article	Eligibility
1	2	3	4	5	6
1	Khaki half sleeves shirt & Trouser (working uniform)	2 sets per person	1 year	<p>Shirt - Khaki shirt should be made up of polyester viscose fibre dyed/ dope dyed cloth, open neck, short sleeves, two breast pockets 6 inches wide and 7 inches deep, round at the bottom with pleats closed by a 2 inches flap pointed at the center, four khaki bone buttons down the front and one on each breast pocket, which is to be fitted with steel press button, plain shoulder straps fastened with two khaki bone buttons.</p> <p>Pant :- Pant should be made up of polyester viscose fibre/ dope dyed cloth. The pant has three loops with 2 X 4 inches attached with khaki buttons. The pant has single plate in the waist & should be cut to fit the boot.</p>	All constabulary, except police women above 35 yrs. of age
2	Singlet	4 for recruits & 2 for others	1 year	Good quality cotton hosiery material. White colour with police monogram imprinted. The singlet should be V neck & 2 cm broad.	All constabulary except women police
3	Khaki short	2 for recruits & SRPF. 1 for all policemen.	1 year	Made up of polyester viscose blended suiting fibre dyed / dope dyed. The material must be supplied in woven salvage mentioning manufacturers name and Maharashtra Police. Shorts have two cross pockets & elastic on waist with flap for buttons.	All constabulary except women police.

4	White shirt full sleeves for traffic.	4 per person	1 year	White shirt full sleeves for traffic should be made up of polyester viscose / dope dyed white colour cloth. Open neck, full sleeves, two breast pockets, 6 inches wide and 7 inches deep, round at the bottom with pleats closed by a 2 inches flap pointed at the centre, four white bone buttons down the front and one on each breast pocket, which is to be fitted with steel press button, plain shoulder straps fastened with two white bone buttons.	All traffic duty personnel
5	Woolen Jersey, Khaki	1 per person	3 years	<p>1) Jersey should be of "Woolmark" with 100 % wool.</p> <p>2) Jersey should have</p> <p>i) a khaki cloth strip of the size 2 cm X 8 cm on the right side of chest in the same line as where the "V" neck ends.</p> <p>ii) There should also be a khaki cloth patch on the left sleeve 3 1/2" below the shoulder line to fix a Logo of Maharashtra Police.</p> <p>iii) There should be small patch of khaki cloth of 1.5 cm X 3 cm on the right hand side in the same line as above.</p>	All Constabulary
6	Angola Shirt & Pant	1 pair per person	2 years	<p>The Angola shirts & pant should be of woolen khaki cloth.</p> <p>Shirt: - Angola shirt should be made up of woolen khaki cloth, open neck, with collar, full sleeves, two breast pockets, 6 inches wide and 7 inches deep, round at the bottom with pleats closed by a 2 inches flap pointed at the center, four khaki bone buttons down the front and one on each breast pocket, which is to be fitted with steel press button, plain shoulder straps fastened with two khaki bone buttons.</p> <p>Pant: - Pant should be made up of woolen khaki cloth. The pant has three loops with 2 X 4 inches attached</p>	All Constabulary

					with khaki buttons. The pant has single plate in the waist & should be cut to fit the boot.	
7	Full Sleeves Woolen Jacket, Khaki	1 per person	5 years		Woolen jackets should be of woolen khaki cloth, open neck with collar full sleeves, two breast pockets, 6 inches wide and 7 inches deep, round at the bottom with pleats closed by a 2 inches flap pointed at the centre. The jacket front should have standard zip. There should be a khaki cloth patch on the left sleeve 3 1/2" below the shoulder line to fix a logo of Maharashtra Police. There should be a small patch of khaki cloth of 1.5 cm X 3 cm on the right hand side in the same line as above. Shoulder flaps for attaching chevrons & stars.	All constabulary
8	Khaki / Camou-flage Dungaree	2 per person & 1 for a SRPF	1 year		Should be of drill cotton cloth, 150 cms, disruptive pattern & shade. Marled with Maharashtra Police logo and the name of Maharashtra Police.	Constabulary of Naxal affected Area, SAG & SRPF
9	Dungaree suit for Armourers.	2 per person	1 year		Dungaree suit made up of khaki drill cotton cloth.	All Armourers.
10	Boiler suit for motor mechanics	2 per person	1 year		Boiler suit made up of khaki drill cotton cloth	All Motor mechanics working in M.T.
11	Raincoat Shirt & Trouser (2 Piece)	1 set per person	3 years		(1) Fabric :- Polyester material woven cloth with PVC coating. (2) Colours:- (i) Camouflage printing for naxal affected area. (ii) white colour with a lettering for traffic & plain white colour without lettering for CID, SID, ACB, ATS personnel (with blue strips)	All constabulary

				<p>(iii) yellow for police station staff</p> <p>(3) Characteristic: -water repellent & water proof.</p> <p>(4) Reinforcements: To be given on all stitching of PVC thick bond.</p> <p>(5) Buttons : press of manufactured from pet (14 pcs)</p> <p>(6) Zipper : 26 " open end fine teeth zipper</p> <p>(7) Elastic :- 1" elastic around pant waist band $\frac{3}{4}$ " (on sleeve hem)</p> <p>(8) Monogram: - police monogram to be printed in retro reflective blue colour as per approved design on the back and on left shoulder & the letters "POLICE" to be printed in retro reflective blue paint on the front and back of the rain coat as per the approved pattern.</p> <p>(9) Reflector: Cross reflector strips of retro reflective material on the front and back as per the approved design.</p> <p>(10) Pocket :- Four pockets with flaps in front of the rain coat as per the approved pattern with press buttons.</p> <p>(11) Hood : Attached to be provided in collar, of the same material.</p> <p>(12) Measurement in size : Medium, large, extra large, double extra large</p>	All Police Women aged of 35 yrs and above
12	Bush Shirt & Trouser for Police Women	2 sets per Women Police	1 Year	Bush shirt with two pockets, flaps on shoulder.	All Police Women
13	Trousers, Khaki for Women (Sports / Training)	2 for women recruits & 1 for other Police women.	1 year	<p>Trouser should be</p> <p>i) of polyester viscose fibre / dope dyed cloth.</p> <p>ii) has three loops with 2 X 4 inches attached with khaki buttons.</p> <p>iii) has single plate in the elastic waist & should be cut to fit the boot.</p>	All Police Women.

14	Khaki Terry cotton Saree	Cash allowance of Rs 800/- to buy 2 Sarees with Blouse & Petticoat for women during & post pregnancy period of 6 months	1 year	Khaki terry cotton saree with 2 inch navy blue border	All Police Women.
15	Khaki Cotton Petticoat	2 for women during & post pregnancy period of 6 months.	1 year	Should be of khaki cotton cloth	All Police Women.
16	Khaki Terry cotton Blouse	2 for women during & post pregnancy period of 6 months	1 year	Khaki terry cotton cloth should be used for blouse with 1/2 inch navy blue border on the sleeves with shoulder flap	All Police Women

17	Cotton T Shirt for Women	2 per recruits & 1 for others	1 year	<p>1) T Shirts -- with collar</p> <p>2) Colour -- White</p> <p>3) Planket -- Two Buttons</p> <p>4) Arms -- With Gripper</p> <p>5) Pocket -- One</p> <p>6) Arms gripper width 1 "</p> <p>7) At bottom width one fold -- 1 "</p> <p>8) At bottom two corner open cut -- 1.5 "</p> <p>9) Lettering of "Maharashtra Police" in Marathi on right chest with monogram.</p> <p>10) Letters "Police " on back side</p> <p>11) Size -- Medium, Large & Extra Large</p>	All Police Women.
18	Fatigue Cap	2 per person	1 year	<p>1) Navy blue, woolen with woolen red peak for District .</p> <p>2) Police & navy blue, woolen yellow peak for Mumbai police.</p>	For all constabulary except SRPF, S.A.G & Women Police
19	Beret Cap, Blue	2 per person	1 year	As per IS Specification No. IS-5085/ 1969, knitted by using two standards of woolen yarn, according to sizes, so as to obtain the required shape and dimensions after milling and finishing. The details viz., yarn, make-up shape lining, leather binding eyelets, etc. strictly as per IS specifications.	All Police Women & SRPF personnel .
20	Jungle Cap	1 per person	1 year	Camouflage / Khaki colour cloth should be used. Jungle cap shape will be base ball type.	Constabulary of Naxal affected Area & SAG

21	Crest for headgear	2 per person	1 year	<p>1) The crest should be of brass metal chromium plated.</p> <p>2) Weight of the finished monogram should not be below 10 grams.</p> <p>3) It should be round at centre with 2.5 cm. dia with three lions and three lines and "सत्यमेव जयते" bottom with curve plate engraved with words "महाराष्ट्र पोलीस" (Length of words 5 mm).</p> <p>4) The total height of the monogram be of 5 cms.</p> <p>5) The monograms should be 1.50 mm.</p> <p>6) The monogram should be 1.50 mm. thick.</p> <p>7) S.R.P.F.:- In the central circular portion of the monogram the words "रा.रा.पो.ब." and two rifles should be engraved.</p> <p>8) The rifles should be placed with their barrels crossing each other and the word "रा." of the above under lined "रा.रा.पो.ब." should come between the two barrels.</p> <p>9) Pin at a back required should be horizontal.</p>	For all A.S.I Women Police, & SRPF men.
22	Cap Buttons	2 pairs per person	1 year	<p>1) Outer diameter 0.9 to 1 cm.</p> <p>2) Thickness at the centre of the bottom :- 5 mm.</p> <p>3) A hook at the back side with thickness of the wire of 20 mm. Gauge</p> <p>4) Front portion :-</p> <p>i) An Ashok Stambha of 1.5 cm length</p> <p>ii) Word "सत्यमेव जयते" just below the Ashok Stambha</p> <p>iii) One raised circle around the Ashok Stambh & Word "सत्यमेव जयते" in Devnagari Script.</p> <p>iv) One raised star, 5 angles, just below the word "सत्यमेव जयते" but outside the raised circle.</p>	For all constabulary except SRPF, SAG & Women Police

				<p>v) Word आशोक स्तम्भ above the Ashok Stambha, but out side the circle in Devnagari Script.</p> <p>5) Gauge and length of the brass wire to be insulated in the hook attached to the button.</p> <p>6) Buttons brass should be weighing from 195 to 220 mgms.</p>	
23	Shoulder Badges with "आ.पं." (chromium plated)	2 Pairs per person	5 years	<p>1) Badges "आ.पं." made of brass and chromium plated (thickness of chromium plating 10/12 micron)</p> <p>2) Size- i)length 3.2 cms ii)width 1.6 cms. (Size of word 1.2 x 1.6 cms) iii) Thickness of letter- 2.5mm</p> <p>3) Smooth finish, no scratches</p> <p>4) Dimension /weight tolerance + 5%</p>	For all constabulary
24	Chevron on shoulder flaps(2 stripes for Police Naiks & 3 stripes for Police Head Constables)	2 Pairs per person	1 year	<p>1) Made up of blue nylon coated cloth.</p> <p>2) Nylon cloth should be of 32 ends per inch.</p> <p>3) Length: i)bottom-12.5 Cm,ii) top (circular) 15.5 cms, iii)height-12.5 cms with 3 strip of silk golden yellow synthetic lace of 9.5 cms, 9 cms & 8.5 cms length and 1.3 cms width.</p> <p>4) Chevron to be suitably reinforced with polyester cotton cloth.</p> <p>5) The two ends of chevron to be suitably stitched with male & female velcro for fastening on the shoulder. Chevron woolen 2 strips for Naik :-</p> <p>i) Made up of blue nylon coated cloth.</p> <p>ii) Nylon cloth should be 32 ends per inch.</p> <p>iii) Length: a)bottom-12.5 cm,b) top (circular) 15.5 cms, c)height-12.5 cms with 2 strip of silk golden yellow synthetic lace of 9.5 cms & 8 cms</p>	All Police Naiks & Head constables

					length and 1.3cms width Chevron to be suitably reinforced with polyester cotton cloth. The two ends of chevron to be suitably stitched with male & female velcro for fastening on the shoulder.			For ASI only
25	Shoulder Flap Star	2 Pairs per person	2 years	iv) v)	1) Star of India pattern (5 pointed star), made of brass and chromium plated. 2) Thickness of chromium plating 10/12 microns thick. 3) Diameter of points 3.5 cm with 2 hooks and a brass pin. 4) Weight 8 gms. with pin. 5) The surface of the arms of the star should be with matt / grain finish and not with smooth finish. 6) Dimension / weight tolerance + 5%			
26	Ribbon Red & Blue	2 Pairs per person	2 years		Should be used nylon fabric			For ASI only
27	Whistle cord, khaki / Black (Lanyard)	2 per person	2 years		Whistle cord khaki / Black:- 1) Whistle cord of length 90cms. 2) Braided portion circumference 35cms. 3) Cord is made by viscose fibre. 4) The length of braided shoulder portion of cord 40/42cms. 5) Diameter of the cord 5mm. Clip for whistle (Two) 4/5cms. 6) The weight finished whistle cord 30gms. 7) Diameter of cord 5mm. 8) Dimension / weight tolerance + 5%			For all Constabulary

28	Whistle	1 per person	2 years	<ol style="list-style-type: none"> 1) The whistle should be of good quality plastic material. 2) Thickness of plastic material 10/12 microns. 3) Split ring and cork ball inside. 4) The circular should be 2.5 cms diameter, 5) length 6.0 cms. 6) wide 2 0 cms 7) weight 35 gms and thickness of sheet 1.4 mm with "Maharashtra State Police "words on it. 	All Constabulary
29	Name Plate	2 per person	2 years	<ol style="list-style-type: none"> 1) The shape of the name plate should be rectangular, with a length of 7.5cm, width 2.5 cm, and thickness 0.2 cm. It shall be of black sumnica. 2) A white horizontal line of 0.75 cm thickness shall be marked in the centre of the vertical border. 3) The name of the policemen shall be written in the upper half of the plate, while the lower half shall indicate the buckle number and name of the unit. 4) All letters and numerals shall be in Marathi. 5) A pin of 3 cm length, with two loops, shall be fixed on a brass plate (length 5.5 cm and width 0.8 cm) at the rear of the plate to give it adequate support for fixing the pin with a small spring. 	All Constabulary
30	Medal Ribbon	1 per person	Accor- ding to wear	To be worn with the shirt as laid down in the Army Regulations.	All constabulary

31	Arm Badge (Maharashtra Police)	2 per person	1 Year	<p>Made up of navy blue woollen cloth as per IS:679 :1993; such as flannel</p> <p>1.Outer circle colour : Crimson Red (silk thread)</p> <p>2.Inner circle colour : Golden Yellow (silk thread)</p> <p>3.Writing : Golden Yellow (silk thread)</p> <p>4.Star (Emblem) : White (silk thread)</p> <p>5.Outer diameter of yellow band : 2 inches</p> <p>6.Width of red band : 1/4th Inch.(Approx)</p> <p>7 Outer diameter of yellow band : 1 3/4 th Inches.</p> <p>8.Width of yellow band : 1/8th Inch.</p> <p>9.Size of alphabets : 1/4 th Inches</p> <p>10.BODHCHINHA :</p> <p>i) Maximum height : 3 Inches</p> <p>ii) Base width : 1 1/2 Inches</p> <p>iii) Width of curvature : 2 1/2 Inches</p> <p>iv)Upper curvature diameter : 2 1/2 Inches</p> <p>11.Weight : 6 gms + 5%</p> <p>12. Yellow colour words "महाराष्ट्र पोलीस" to be embroidered rear (optional) : 3 Male buttons for fastening on the arm sleeves</p>	All Constabulary
32	Shoulder Badges for Wireless Police	1 per person	Accor- ding to wear	<p>1) The badge shape should be rectangular.</p> <p>2) A design: 2.54 cms (1") in height with wave lines on its either sides to be worked in red silk thread on rectangular 7.62 cms X 6. 35 cms (3 " X 2 1/2 ") piece of dark blue woollen cloth mounted on a medium quality buckram.</p> <p>3) Hooks to be fixed at each corner of the badge.</p>	For wireless personel.

33	Cloth Badge	3 per person	1 year	<p>1) Badge shall be of navy blue colour of woolen cloth with red colour border.</p> <p>2) Particulars of octangle are:- length and width 2 " each corner sides 1 " printing of letters SRPF be in capital English red letters and Group Number be in Roman capital letter.</p>	For SRPF
34	M T Arm Badge	1 per person	According to wear	<p>Badge with letters "M T" work in blue silk thread on rectangular 5.08 cms X 6.35 cms. (2" X 2 1/2 ") piece of dark red woolen cloth, mounted on a medium quality buckram. Hooks to be fixed inside at each corner of the badge.</p>	M.T. Personnel
35	Cross Belt Stripe (to be attached with hook to the multi functional belt)	1 per person	2 years	<p>1. The cross belt stripe should be of polyamide black coloured fabric or better material .</p> <p>2. Dimension :</p> <p>i) width: 37 +/- 2mm</p> <p>ii) Thickness: 4 +/- 0.5 mm</p> <p>iii) Length: As per size required.</p> <p>iv) Weight : 110 + / - 10 Grams</p> <p>v) Material : Black coloured web fabric of 37 x 1.85 mm thick.</p> <p>3. Construction :</p> <p>i) strap assembly shall be visually free from all types of defects and smooth finished.</p> <p>ii) Strap shall be neatly stitched.</p> <p>iii) Outer surface of the belts shall be of black web fabric and inner surfaces shall be made from velcro male with female velcro of 100 + / - 5mm shall be provide at free end.</p> <p>iv) One end shall be fixed with rigid plastic clip and other free and shall be rounded – off (made of female velcro of 100 + / - 5 mm)</p> <p>4. Strap shall be prepared with 3 parallel and equal</p>	For all ASI's

ii) iii) iv) v)	<p> Thickness : 4 + / - 0.5 mm Length : As per size required. Weight : 110 + / - 10 Grams Material : Black coloured web fabric of 37 x 1.85 mm thick construction strap, strap assembly shall be visually free from all types of defects and smooth finished. Strap shall be neatly stitched. Outer surface of the belts shall be of black web fabric and inner surfaces shall be made from Velcro male with female velcro of 100 + / - 5mm shall be provide at free end. One end shall be fixed with rigid plastic clip and other free and shall be rounded – off (made of female Velcro of 100 + / - 5 mm) strap shall be prepared with 3 parallel and equal spaced stitches. Clip shall be of black coloured, rigid, smooth finished and free from visual defects. One end of strap shall be fixed in to clip and another end shall be free to move in it for suitable tightening purpose. (C) Walkie talkie bag 1) Dimension / width : 78 + / - 5 mm. 2) Height : 170 + / - 5 mm 3) Weight : 55 + / - 10 Grams 4) Material polyamide black coloured fabric specifications are given below - Construction Bag: Bag assembly shall be visually free from all types of defects neatly stitched and smooth finished. </p>
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Provision of mounting on belt or strap shall be provide on rear end and it shall be made from black web fabric of width 37 x 1.85 mm thick. Suitable flap / elastic thread web / press button shall be provide to close the bag.

(D) Torch light pouch

1) Dimension / width : 50 + / - 5 mm

2) Height : 250 + / - 5mm

3) Weight : 35 + / - 5 Grams

4) Material : Polyamide black

coloured. Fabric specifications are given below-

Construction Bag: Bag assembly shall be visually free from all types of defects, neatly stitched and smooth finished. Provision of mounting on belt or strap shall be provide on rear end and it shall be made from black web fabric of width 37 x 1.85 mm thick. suitable flap / elastic thread web / press button shall be provide to close the bag.

(E) Water bottle bag

1) Dimension /width : + / - 5 mm.

2) Height : 170 + / - 5 mm

3) Weight 55 + / - 10 Grams

4) Material polyamide black colored fabric specifications are given below .

Construction bag: Bag assembly shall be -visually free from all types of defects neatly stitched and smooth finished. Provision of mounting on belt or strap shall be provide on rear end and it shall

be made from black web fabric of width 37 x 1.85 mm thick. Suitable flap / elastic thread web /press button shall be provide to close the bag.

(E) HOLSTER

1) Dimension /width : 98 + / - 15 mm.

2) Height : 200 + / - 15 mm

3) Weight :65 + / - 10 Grams

4)Material polyamide black colored fabric specifications are given below -

Construction holster assembly shall be visually free from all types of defects neatly stitched and smooth finished. Provision of mounting on belt or strap shall be provide on rear end and it shall be made from black web fabric. Suitable flap / elastic thread web / Press button shall be provide to lock the holster weapon in holster.

FABRIC SPECIFICATION

POLYAMIDE CORDURA BELT

i) Specification : Test value

Warp weight

ii)Construction : 1000 D x 1000 D x 68 x 60

iii) Width (Inch) : 59 + 1

iv) Count (T/Inch) : 34 + 1 24 + 1

v) Thickness : 0.55 + 0.02

G / M2 325 + 10%

vi) Composition : Nylon 66 Codura

vii) Colour Fastness (Class) washing light

viii) Rubbing (Dry/Wet)

MIN 4 04-Jan

ix) Breaking

MIN 223 200

				<p>x) Strength (Kgs) Tearing MIN 18.87 17 22</p> <p>xi) Tearing MIN 0.75</p> <p>xii) Water Resistance DRY 800 mm</p> <p>xiii) Water Repellence (Class) DRY 90</p> <p>xiv) Shrinkage % MAX 1.63% 0.88%</p>		All Constabulary
37	Buckle plate	1 per person	30 years	<p>Buckle plate :-</p> <p>1) Rectangular chromium plated brass buckle plate with suitable curve and width with link on one side. Rectangular body 9.5 cm X 7 cm</p> <p>2) The chromium plated brass buckle plates should be fabricated of rolled brass sheets of superior quality of 14 SWG (2.03 mm) thickness.</p> <p>3) Letters. ((District name) Police) with buckle numbers in devnagari script curve wise on the body of the buckle.</p> <p>4) There should be two hooks at the back of the body of buckle, 15 c.m. thick brass plates opposite side of the link.</p> <p>5) Weight - 105 grams. + 5grams</p>		All Constabulary
38	Shoes, Oxford (Black)	1 pair per person	1 year	Attached Appen - 1		All constabulary
39	Leather Ankle Shoes	1 pair per person	1 year	Attached Appen - 2		All constabulary.

40	P.T Shoes Brown, White	Brown - 2 pairs for recruits & SRPF & 1 pair for others. White - 1 pair for all constabula ry.	1 year	<p>White canvass shoes with direct injected process PVC / PU sole with textile upper white canvas</p> <p>1) Upper material : polyester or polyester viscous or polyester cotton blended rubberized / eva and laminated with cloth for lining. The upper cloth shall be min. breaking strength of 470 n/3 centimeter and lining cloth of min. breaking strength of 200 n/3 cms. Polyurethane foam for collar padding --10 mm thick of density 25 kg/m³ duly covered in skin fit.</p> <p>Thread- nylon no. 40 matching to upper layer colour, min. breaking strength of 2.6 kg and min. elongation of 22 % stroble cord / lasting string of min. breaking strength of 200 n and min. elongation of 42 %</p> <p>2) Counter stiffener – polyester cotton laminated with drill/stroble or rubberized fabric, of min. 1.4 mm thickness.</p> <p>3) Binding – polyester/ cotton/ pc/ binding 12 mm width with colour fastness to rubbing and washing of 3.5 gray scale reading. In sock padded foam 2.5 mm (pvc/eva/latex) with cotton drill upper. Fabric surface towards feet.</p> <p>4) Toe cap : pvc material having thickness of 1.6 mm (+ 1) in combination colour.</p> <p>5) Sole: Direct injected process virgin pvc/ pu with min. thickness of 4 mm min. forepart thickness of 6 mm and heel thickness of 12 mm.</p>	All constabulary
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Requirements

6) Shape and design .

Canvas shoe with lace on broad toe last of g/h fitting for gents.

Colour dark brown close to the shade of the displayed.

7) Soling pattern :

The soling shall not included continuous lateral tread patterns or any other features, such as sharp corners at the base of sole pattern, which may accelerate or cause premature crack formation.

The design should be such that the sole will have adequate skid resistance with clear height of min. 2 mm. the sole should be of cup/bucket type.

The sole will be formed by direct injection process on the lasted upper.

8) Hardness:

The hardness shall be 55 to 75 shore A/ irhd
relative density of sholing material the relative density of the material after moulding shall be between 0.7 to 0.85 gm per cc. bond strength upper/outside bond strength – the bond strength when tested as per is 15298 shall not be less than 3 n/mm

41	Gumboot Black Ankle High	1 pair per person	1 year	1)The gumboot should be of good quality PVC / rubber material. 2)The weight of the gumboot should be light. 3)The hight of the gumboot should be 10 inch for rural / heavy rainfall area & ankle high gumboot with good quality press button.	All constabulary
42	Patrolling Shoes	1 per person	2 years	Attached. Appen. 3	All Constabulary
43	Socks Black	3 pairs per person	1 year	Nylon Socks Black:- 1) Socks nylon plane knitted black using two yarns together, one nylon yarn and other PC yarn (polyester 67%, cotton 33%) with reinforced heel toe and sole. 2)) Heavy duty quality weight of the socks should be 36 grm per pair + 2%. 3) The top, heel and toe portion of the socks should be double welt. 4) The other specification should confirm to IS: 5084 – 1990.	All constabulary
44	Woollen socks Black	2 pairs per person	1 year	Specification of woollen socks :- woolen socks black with "WOOL MARK" quality as per specification No. G/TEX/W-70/1993 expect composition of WOOL which Should be 100 % wool.	All constabulary
45	Anklet Web Black	1 pair per person	1 year	1) Web Anklet with basic fabric of PVC coated polyester fabric/ better material available. 2) The size of the web anklets should be 33cm.in length & 15.5 cm in width. 3) It should be reinforced with polyester viscose fabric of good quality & colorfastness (black colour).	All constabulary

				<p>4) It should be provided with tugs, buckles (size 1 inch) made of brass.</p> <p>5) The web anklet should be stitched with black colored nylon thread of good quality & strength.</p> <p>6) The web anklet should be supported by 2 mm EVA thermacol sheet of black / gray colour between the basic fabric & lining.</p> <p>7) Male & female velcro of 2 inches width & 13.5 cm in length should be provided at the two sides.</p> <p>8) These web anklet should also be fitted with two side buckles (brass) of 16 gauge thickness 2.5 cm X 2.2 cm size & two straps made out of polypropylene material 12 mm wide (approx) & 12.5 cm in length with brass tugs at the ends to be stitched with the web anklet.</p> <p>9) The finished web anklet should be exactly similar to the approved tender sample.</p>	All constabulary
46	Kit Box	1 per person	15 years	<p>Steel trunk large size as per IS 7275 : 1973 with amdt. 1.</p> <p>1) Outside colour black oil paint.</p> <p>2) Inside colour white</p> <p>3) Additional bushings at the bottom & the weight of the kit box should be 11.200 kgs length 675 mm, width 370 mm & height 330 mm.</p>	All Constabulary
47	Air Bag	1 per person	5 years	<p>Air bag should be made by cloth 1200 " 1200 donum metty rexine or better material available with colour off Navy blue/ medican blue.</p> <p>1. Length 53 cm</p> <p>2. Width 26 cm</p> <p>3. Height 30 cm</p> <p>4. Round Zip-open tabla -- as required for above dimensions.</p> <p>5. The Maharashtra Police emblem printed on the middle of the front side-pocket.</p> <p>6. Bottom of the Bag..</p>	All Constabulary

				(a) Plywood 6 mm (Marine ply) Free (b) length – 48 cm (c) Width – 8 to 9" 7. Inside pocket partition – Matty 600 " 600 dorum – 10-11" length and 8.5 to 9.5" width 8. Bag should have P V.C wire of 9mm thickness 9. Shoulder strap length 41 to 43", nylon, 1-1/4" broad and 2 mm thick matching navy blue. 10. All zips should be TCYO or YKK or TONY standard brand 11 All hooks adjustment buckle of stainless steel 12 Bottom pad (external) – round, stitched fitting HDPE 13 Thread quality for stitching – 3 ply for industrial use 14. PVC pipe for the straps. 15. Two additional back straps. (28" two belt) four(4) S R pushing lock 1- 1/4"				SRPF, SAG, and Policemen of Naxal affected district.
48	Haversack (Pittoo)	1 per person	3 years	Nylon/ synthetic / polyester cloth pittoo with design of the disruptive pattern and colour / shade : (i. e. Khaki OG/ camouflage shade). The material used in manufacture of the haversack would be conform fully to IS specification.				All Constabulary
49	Water Bottle	1 per person	Accor- ding to wear	1) Shape : shape of water bottle 'v' / truncated cone type with slight curve shall be provided. 2) Capacity : 1000 ml \pm 5%. 3) Material : to be manufactured from vargin grade mixture of LLDPE 80% & HDPE blow moulding 20%. colours and additives to be added should be of food grade only. 4) Dimensions . height over all : 210mm \pm 5 mm width top : 130mm \pm 5 mm width bottom : 105mm \pm 5 mm wall thickness : front & rear wall 2.45 mm \pm 5 % side wall 1.4 mm \pm 5 % 5) Neck : neck shape and pattern to be as per indent sample. 6) Cap strap : cap strap shall be intact and rotate				

freely on neck.

- 7) Cap : shall be manufactured from vargin grade polypropylene and have two complete threads with 4 mm pitch to prevent leakage of water.
- 8) Weight : 205 gram \pm 5%.
- 9) Finish : the workmanship and finishing to be free from any manufacturing defects like flush, apparence, sharp corners etc. metal cavity. The shape and size of the metal cavity shall be made / provided as per the approved sample.
- 10) Material : it shall be made of single piece deep drawn aluminium.
 - i) Thickness : 1.2mm \pm 5%.
 - ii) Weight : 185 gms \pm 5%.
 - iii) Handles: 2 foldable handles to be provided on the rear wall.
- 11) Finish : the workmanship and finishing to be free from any manufacturing defects like flush, apparence, sharp corners, etc.
- 12) Fabric : outer layer to be stiched from PU coated polyster cloth & inner layer to be stiched from water & heat resistant smooth fabric.
- 13) Bag : tobe provided with 2 flaps with 2 press fit buttons. Outer end to be covered and stiched from nylon webbing material.
- 14) Bag belt mounting to be stiched on the back and to be made from nylon webbing material of 50 mm width x 1.2 mm thick. length to be of 100 mm with 2 ports for fitting of m.s. slides. m.s. guides/slides shall be made with black powder coating. The cold water stored in the water bottle should not lose more than 5°C in a hour in normal room temperature.

50	Carpet (Sataranjee / Dar)	1 per person	5 years	The carpet should be of the Size of 3 ft. X 6 ft., Without tassels navy blue colour	All Constabulary
51	Ground Sheet	1 per person	3 years	Ground sheet (water proof) :- (A) Length (cm) 2 mtrs. IS-7016-Pt I (B) Width (cm) 115 min IS-7016-Pt I (C) Mass of finished fabric 350 +/- 25gm IS-7016 - Pt I Gm/m ²	SRPF men
52	Tiffin Box	1 per person	4 years	Made of food grade stainless steel metal quality with four round shaped containers. The size of the containers and other details should be as under :- 1) Height of tiffin box - 30cms 2) Height of four containers - 22.5 cms 3) Height of bottom plate - 2.3 cms 4) Height of container from outside - 6.0 cms 5) Height of container from inside - 5.9 cms 6) Inside diameter of container - 11.3 cms 7) Outside diameter of container - 11.4 cms 8) Height of patty from top container - 5.9 cms 9) Width of patty - 2.0 cms 10) Weight of tiffin box - 850-900 gms 11) Gauge of sheet (Steel) - 26 S.W.G. The tiffin box should be embossed or engraved with Maharashtra Police name & logo on it.	SRPF men & Recruits
53	Sleeping Bag	1 per person	2 years	1) The navy blue shade cloth of sleeping bag should be waterproof. 2) Bag should be light weight and packed with zip around so it can be easily kept into the pittoos. 3) Specification :- Light weight 4) Fabric :- The shell should be water- resistant of 190T washable polyester fabric / or better material	Constabulary of Naxal affected area & S A.G.

				available in navy blue or dark blue colour 5) Measurement:- Sleeping bag "A" :- Length 180 cm, width 150 cm, head support 30cm. "75cm. (attached with the sleeping bag head support to have zip so as cover the head portion) weight 1200 gms with weight of the crimped synthetic staple fibre.	
54	Mosquito net	1 per person	2 years	<p>The net should be made by nylon or cotton material.</p> <p>The dimension of mosquito nets shall be: length -198 + 5 cms, width 107 + 3cm, height 147 + 4 cms</p> <p>B. The details of materials used be as under :-</p> <p>a) Netting used for manufacture of mosquito nets shall conform to DGQA prov. specification No. D/4211/99/TC 11 (a)</p> <p>b) Polyester sewing thread of matching shade.</p>	All constabulary
55	Blanket Dark Blue	1 per person	5 years	<p>Woolen / polyester blended. Colour should be navy blue. There should be a printed monogram of Maharashtra Police on bottom side. Size should be 7' X 4'. weight of the blanket should be 800 to 1100 gms.</p>	All Constabulary

56	Lathi	1 per person	5 years	<p>1) Thickness minimum 4mm variation + 0.5mm.</p> <p>2) Material: - G.E. lexan polycarbonate, fresh material to be used & not the recycled material.</p> <p>3) Length – (i) 105 cm+ 1 cm, (ii) 100 cm+ 1 cm outer diameter – 24.5mm + 5mm</p> <p>4) Grip – Good quality material - LLDPE. length minimum 18 5 cm.</p> <p>5) Thickness & shape as per sample available fitted with proper adhesive chemical.</p> <p>6) Material should be soft to bear reasonable impact shock to wrist when used.</p> <p>7) Nylon strap around the handgrip – Minimum 1" broad 2mm thick black nylon strap, which should be easily worn around the wrist for a firm grip. length of the strap 16".</p> <p>8) Protective cap: LLDPE material 4mm thick, 4 inches long, sealed at the external end</p>	All Constabulary
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Appendix -1

GR No. UNF 0907/ C.R. 482/ Pol -4 dated 29th February, 2008

SPECIFICATION FOR SHOE OXFORD DIRECT MOULDED P.U. SOLE

- 1 Oxford leather Direct Moulded P.U. Sole Shoes in sizes 5 to 11 (English system) or in sizes 39 to 44 (French system).
- 1.1 The shoes should be made from Chrome tanned corrected grain leather upper, lined with cambrelle to absorb perspiration. The shoes are manufactured with elevated P.U. soles with anti slip design by Direct Injection Process.
2. **STANDARD PATTERN**
- 2.1 The standard pattern of shoes shall be oxford type with leather upper, Direct Moulded sole.
3. **MATERIALS**
- 3.1 The shoes shall be manufactured from the following materials :-
 - i) Leather chrome tanned for upper black (Buff/Cow) - The requirements are corrected grain for direct injection process given in Appendix-A1
 - ii) Cambrelle for lining -
 - iii) Thread nylon - Nylon thread 3 ply having min breaking strength of 3.5 kg.
 - iv) Eyelets aluminum/brass, enamelled black for shoes -
 - v) Laces nylon Min /70cm (min.) long for shoes -
 - vi) Polyurethane sole - The requirements are given in appendix -A2
4. **MANUFACTURE**
- 4.1 The shoes shall be manufactured as described below :-
- 4.1.1 The shoes shall be made by direct injection process (DIP construction) using standard last having G/H-fitting.
- 4.1.2 Design
- 4.1.2.1 The shoes shall be Oxford type with stroble construction with Direct Moulded P.U. sole. A full tongue shall be completely lined.
- 4.1.2.1.1 Shape of Components.
- 4.1.2.1.2 The patterns of the quarters, outside counter, vamp lining, toe cap and toe puff shall be so designed that these do not form excessive pleats at "Toe" and "Counter" regions during lasting
- 4.1.3. Cutting of Components
- 3.1.3.1 The various upper and bottom components of leather shall be cut from the material and to the thickness as prescribed in Appendix-A3. All components shall be free from serious grain damage, flay cuts and other defects. Care shall be taken that all parts, forming the upper are cut so that the lines of tightness of the leather is in the direction from heel to toe.
5. **UPPER CLOSING**
- 5.1.4.1 The upper shall be attached/closed on lock stitch machine using nylon thread for counters, back and tongue joint with vamp and for remaining position equivalent spun polyester thread can also be used for stitching in place of nylon thread. The number of stitches shall be 20 to 32 per decimeter. Care shall be taken to maintain the space and uniform tension of the stitching at all places
- 5.1.4.2 The joined top of the quarters shall be carefully strengthened by means of leather strip from outside.
- 5.1.4.3 Two rows of stitching shall be used at the toecap and counter, and two rows at the sides

- 5.1.4.4 The toe puff shall be stitched with second row of toecap stitching. All loose ends of the upper stitching shall be secured properly
- 5.1.4.5 The full tongue shall be so fitted that no wrinkles/step occur where it is joined to the vamp
- 5.1.4.6 Five eyelets shall be fitted in each quarter facing. The eyelet shall be clinched with washer, without distortion. The top eyelet shall be positioned at a distance of min. of 10mm from the top line of the quarter and rest shall be equally spaced.

5.1.5 Lasting

- 5.1.5.1 Pre moulding of toe and counter (thermoplastics) shall be done before lasting. Moulded upper shall be stitched by stroble cloth all around ensuring that there is no wrinkle in the stitching area. Care should be taken to match stroble stitching with upper knuckles so that upper is straight
- 5.1.5.2 The upper shall be properly laced upto the fourth eyelet before lasting so that the quarters remain in proper alignment on the instep.
- 5.1.5.3 In the lasting operation, the upper and the insole shall not be wetted or damped too much to show any water spotting or to make the grain pattern of upper leather disappear.
- 5.1.5.4 The Shoe shall remain on the last long enough to ensure proper shape of the upper and adequate setting of the shoe

6 Requirement

- 6.1 The material used in the manufacture of shoes shall be tested to the specification/ requirements given in this specification
- 6.2 The mass of one pair of finished shoes of size 8 shall not exceed 800g with an increase or decrease of 75g for each bigger or smaller size respectively.
- 6.3 Dimensions of Shoe will be as under :
The back height and depth of toecap for size 8 will be 70 ± 2 mm and 55 ± 5 mm. These dimensions will increase and decrease by 2 mm and 5 mm per size respectively
- 6.4 The thickness of sole in the finished condition shall be as under :
- | Sl. No. | Description | Thickness (mm) |
|---------|-------------------------------|----------------|
| 1. | At forepart | 7 (min.) |
| 2. | At waist | 6 (min.) |
| 3. | At heel | 20 (min.) |
| 4. | Depth of cleat at sole & heel | 2 (min) |
- 6.5 The Direct Moulded Shoe shall be subjected to adhesion test. The testing shall be made at least 24 hours, after allowing the Shoe to cool down at room temperature. For accurate results it is recommended to test the sample after 24 hours.
- 6.6 Upper/outsole bond strength - The bond strength shall not be less than 3 N/mm unless there is tearing of the material.
- 6.7 The bond strength between the outer or cleat layer and the adjacent layer shall be not less than 3N/mm unless there is a tearing of the sole, in which case the bond strength shall be not less than 2.5 N/mm.
- 7 The socks of the Shoe shall be legibly stamped with the manufacturer's name or his recognized trade-mark, size and month & year of manufacture.
- 8 Hydrolysis Test-The sole shall be placed in High Humidity (100%) at a temperature of 72°C for 5 days and then tested for SATRA Bata sole flexing for 50,000 cycles. No crack or damage to the footwear is acceptable
- 9 The shoes shall be delivered in new, dry and clean condition.

APPENDIX- A1

UPPER LEATHER

The requirements of upper leather are given below .

Property	Test Method	Minimum Requirement
Tear strength	ISO 377-1975	Min. force 90 N
PH value	EN 344/ ISO 405-1977	Min. 3.5, If below 4, the difference figure shall be 0.7
Water vapour permeability & coefficient	EN 344	Water vapour permeability shall not be less than 0.8 mg per cm ² per hour and the water vapour coefficient shall not be less than 20mg per cm ²
Water penetration & absorption	EN 344	The absorption shall not be higher than 50% after 30 minutes from the start

APPENDIX- A2

POLYURETHANE SOLE

System	Polyester based
Chemicals processing temperature (°C)	40 to 45
Mould temperature (°C)	40 to 50
Mould occupation time (minutes)	2 to 2.5
Moulded density (kg/m ³)	400 to 600
Tensile strength (DIN 53504, Mpa)	> 5
Elongation at break (DIN 53504, %)	> 200
Trouser tear strength (DIN 53507, kN/m)	> 2.0
Flexing life test	30,000 flexes, maximum widening of puncture, 6mm
Abrasion test, (DIN 53516)	Maximum loss 350 mm ³
Values of properties after hydrolysis (higher temperature/humidity test - DIN 53508, 168 hours at 70°C and 100% R.H.)	The values for tensile strength & elongation at break must not drop below the 75% of values specified above.

APPENDIX- A3

THICKNESS OF COMPONENTS

Sl. No.	Components	Material	Thickness (mm)	
			Min	Max
1	2	3	4	
1	Quarter	Chrome tanned upper leather	1.1	1.5
2	Vamp		1.1	1.5
3	Toe Cap		1.1	1.5
4	Out side counter		1.1	1.5
5	Full tongue		1.0	1.5
6	Back strengthening piece		1.0	1.5
7	Full insock	Buff split leather	0.7	0.9
8	Lining	Cambrelle lining	0.7	0.9
9	Insole	Stroble canvas	1.2	1.5
10	Counter Stiffener	Thermoplastic material	1.0	1.3
11	Toe puff	-do-	0.60	0.80

Appendix -2

GR No. UNF 0907/ C.R. 482/ Pol -4 dated 29th February, 2008

Specifications of Boot Ankle Leather Black (DIP-PU)

- 1 Boot Ankle Leather Black made out of Directly Injected P U Sole in sizes 5 to 11 (English system) or in sizes 39 to 46 (European system)
- 1.1 "Boot Ankle Leather" covered by this specification is a two-piece design, with a toecap and counter. The design also caters for adequate ankle support. It also meets the requirement of wear comfort during long marches.
- 1.2 Galifornian / Strobel construction process should be adopted for lasting and the attachment of upper to the sole should be achieved with Direct Injection Process. The boots should be made with a bucket type of sole to avoid any ingress of water. Direct Injection Process for soling should be adopted to avoid stitching of soles to eliminate any ingress of water through stitch holes. The use of nails / screws is completely eliminated.
- 1.3 Made from Chrome tanned Zuggrain leather upper for Vamp, Quarters and Tongue lined with Cambrelle to absorb perspiration or without lining depending on climatic conditions. Toe Cap and Counter are made out of Plain CG leather. The boots should be manufactured with cleated P U Soles and with anti slip design.
- 1.4 To give added comfort while undertaking long walks and marches, a layer of soft EVA rubber sheet should be provided under full leather socks.
- 1.5 A finished pair of boots weighs approx. 0.88 to 1.20 Kg. depending upon its size.

2. RELATED "BIS" SPECIFICATION

- 2.1 Reference is made in this specification to
 - i. IS:5041-1978-Footwear and stationary eyelet.
 - ii. IS:5677-1986-Shoes upper leather for direct moulding process
 - iii. IS: 8086 (Pt I) 1986-Footwear method of test Pt I dimensions, fitting, adhesion, test etc.
 - iv. IND/TC/0304 - Laces nylon black for boots & Shoes

3. STANDARD PATTERN

- 3.1 The standard pattern of Boot Ankle Leather Black (PIP-PU) shall constitute the standard with regard to appearance general workmanship, finish and any other particular/properties not noted/defined/determined in the specification.

4. MATERIALS

- 4.1 The boots shall be manufactured from the following materials.
 - i) Leather chrome tanned for upper for direct moulding process
(a) Zuggrain for Vamp, Quarters and Tongue
(b) Buff CG Plain for Toe Cap and Counter
 - ii) Cambrelle for Lining
 - iii) Thread nylon
 - iv) Eyelets aluminum, enameled black for boots
 - v) Laces nylon 90cm long for boots
 - vi) Polyurethane sole (required chemicals)

The requirements are give in Appendix-B1

Standard Quality Nylon or Spun Polyester thread 3 ply having min breaking strength of 3.5 Kg
IS: 5041-1978
IND/SS/1365
IND/TC/0304
Requirements as per Appendix- B2 to this specification

5 MANUFACTURE

5.1 The boots shall be manufactured as described below:-

- 5.1.1 The boots shall be made by direct injection process (DIP construction), using last model conforming to the dimensions of last model no 9150 or 10883 or equivalent.
- 5.1.2 Design of the boots shall be Derby type and conform to the design and shape as illustrated in the sketch attached to this specification. A full tongue shall be completely lined.
- 5.1.3 The patterns of the quarters, outside counter, vamp lining, toe cap and toe puff shall be so designed that these do not form excessive pleats at 'Toe' and 'Counter' regions during lasting.

5.2 CUTTING OF COMPONENTS.

- 5.2.1 The various upper and bottom components of leather shall be cut from the material and to the thickness as prescribed in Appendix - B3. All components shall be free from serious grain damage, flay cuts and other defects. Care shall be taken that all parts, forming the upper are cut so that the lines of tightness of the leather are in the direction from heel to toe.

5.3 UPPER CLOSING

- 5.3.1 The upper shall be attached/closed on lock stitch machine using nylon thread for counters, back and tongue joint with vamp and for remaining position, equivalent spun polyester thread can also be used for stitching in place of nylon thread. The number of stitches shall be 20 to 32 per decimeter, care shall be taken to maintain the space and uniform tension of the stitching at all places.
- 5.3.2 The back seems of the quarters shall be taped with tape cotton. The joined top of the quarters shall be carefully strengthened by means of 25mm wide leather strip from outside.
- 5.3.3 The counter shall be turned over to within 13mm at the top so as to form a jug loop as illustrated in the relevant sketch attached.
- 5.3.4 Two rows of stitching, 3mm apart, shall be used at the toe cap and counter, and two rows 6mm apart, at the sides. the distance between the two rows for stitching at the facing of the quarters shall not exceed 2mm, the first row of stitches being 3mm from the edge of the quarter.
- 5.3.5 The toe puff shall be stitched with second row of toe cap, stitching. All loose ends of the upper stitching shall be secured properly.
- 5.3.6 The full tongue shall be so fitted that no wrinkles/step occurs where it is joined to the vamp.
- 5.3.7 Four or Five eyelet shall be fitted in each quarter facing. The eyelet shall be clinched with washer, without distortion. The top eyelet shall be positioned at a distance of 25mm from the top line of the quarter and rest shall be equally spaced.

5.4 LASTING

- 5.4.1 Pre-moulding of toe and counter (thermoplastics) shall be done before lasting. Moulded upper shall be stitched by stroble cloth all around ensuring that there is no wrinkle in the stitching area. Care should be taken to match stroble stitching with upper notches so that upper is straight.
- 5.4.2 The upper shall be properly laced up-to the third eyelet before lasting so that the quarters remain in proper alignment on the instep.
- 5.4.3 In the lasting operation, the upper and the insole shall not be wetted or damped too much to show any water spotting or to make the grain pattern of upper leather disappear.
- 5.4.4 The boot shall remain on the last long enough to ensure proper shape of the upper and adequate hardening of the toe puff and the stiffener.

6. REQUIREMENT

- 6.1 The material used in the manufacture of boots shall be tested to the specifications/requirements given in this specification.
- 6.2 The mass of one pair of finished boots of size 8 shall not exceed 1100 gm with an increase or decrease of 100g for each bigger or smaller size respectively.
- 6.3 Dimensions of boot will be as under:
- | Size No. | Leg Height | Depth of toe cap |
|-----------|------------|------------------|
| 5 to 7 | 144-25 | 72 |
| 8 to 10 | 152-25 | 77 |
| 11 to 13 | 160-25 | 82 |
| Tolerance | ± 2 | ± 1 |
- 6.4 The thickness of sole in the finished condition shall be as under:
- | Sl.No. | Description | Thickness (mm) |
|--------|-------------------------------|----------------|
| 1. | At forepart | 16 (min) |
| 2. | At waist | 11 (min) |
| 3. | At heel | 25 (min) |
| 4. | Depth of cleat at sole & heel | 4 (min) |
- 6.5 Adhesion Test - The direct injected boot shall be subjected to adhesion test. The testing shall be made at least 24 hours, after allowing the boot to cool down at room temperature. For accurate results it is recommended to test the sample after 28 hours.
- 6.6 Upper/outsole bond strength - The bond strength shall not be less than 4 N unless there is tearing of the material. The bond strength between the outer or cleated layer and the adjacent layer shall be not less than 4N/mm unless there is a tearing of the sole, in which case the bond strength shall be not less than 3,0 N/mm.
- 6.7 Electrical Insulation - When measured in accordance with the method described in EN 344 after conditioning in a dry and wet atmosphere, the electrical resistance shall be not less than 100 K-and not greater than 1000M-
- 6.8 Heat insulation of sole complex - When footwear is tested in accordance with the method described in EN 344 the temperature increase on the upper surface of the insole shall be not greater than 22°C.
- 6.9 Cold insulation of sole complex - When footwear is tested in accordance with the method described in EN 344, the temperature decrease on the upper surface of the insole shall be not more than 10°C

7. MARKING

- 7.1 Each boot shall be legibly stamped with indelible ink/paint on the waist near manufacture's marking using stamp.
- 7.2 The waist position of the finished boot shall be legibly stamped with the manufacture's name or his recognized trade-mark, Cat No., size fitting and month/year of manufacture.
- 7.3 The size of the boot shall also be legibly and indelibly marked on the waist of outer sole and at the top surface of the tongue.

8. PACKING

- 8.1 The following materials shall be used for packaging of boot ankle leather made out of Directly Injected PU Sole
- Solid fiber board boxes
 - Polypropylene strapping 19mm x 0.55 mm (for solid fiber board boxes)
 - Tape paper gummed 50mm wide.
 - Paper wrapping waterproof plain (using craft paper having substance 60 g/m²)
- 8.2 The boots shall be delivered in new, dry and clean condition.

**APPENDIX-B1
UPPER LEATHER**

The requirements of upper leather are given below :

Property	Test Method	Minimum Requirement
Tear Strength	ISO 377-1975	Min. force 120 N
pH Value	EN 344/ISO 405-1977	Min. 3.5, If below 4, the difference figure shall be 0.7
Water vapour permeability & coefficient	EN 344	Water vapour permeability shall not be less than 0.8 mg per cm ² per hour and the water Vapour coefficient shall not be less than 20 mg per cm ²
Water penetration & absorption	EN 344	The absorption shall not be higher than 30% after 60 minutes from the start and water penetration shall not occur during this period, nor exceed 2 kg. after a further 30 minutes.

**APPENDIX-B2
POLYURETHANE SOLE**

System	Polyether based
Chemicals processing temperature (°C)	20 to 25
Mould temperature (°C)	40 to 50
Mould occupation time (minutes)	4
Moulded density (kg/m ³)	500 to 600
Tensile strength (DIN 53504, Mpa)	5.5 to 6.5
Elongation at break (DIN 53504, %)	380 to 410
Trouser tear strength (DIN 53507, kN/m)	12 to 14
Ross flex test (cut growth in mm/1,000 cycles At - 5 °C At - 18 °	0.001 ---
Flexing life test (DIN 53507)	30,000 flexes, minimum widening of puncture, 6mm
Abrasion test, (DIN 53516)	Maximum loss 300 mg
Values of properties after hydrolysis (higher temperature/humidity test - DIN 53508, 168 hours at 70°C and 100% R.H.)	The values for tensile strength & elongation at break must not drop below the 85% of values specified above.

**APPENDIX-B3
THICKNESS OF COMPONENTS**

Sl. No.	Components	Material	Thickness (mm)	
			Min	Max
1	2	3	4	
1	Quarter	Chrome tanned upper leather	1.8	2.5
2	Vamp		1.5	1.8
3	Toe Cap		1.2	1.8
4	Out side counter with extended wing at jug loop		1.2	1.8
5	Full tongue		1.2	1.8
6	Back strengthening piece		1.2	1.8
7	Full insock	EVA Moulded with arch support covered by split leather	0.8	1.0
8	Lining	Lining leather or nylon cambrelie	0.8	1.0
9	Insole	Stroble canvas	1.3	1.8
10	Counter Stiffener	Thermoplastic material	1.5	2.0
11	Toe puff		1.5	2.0
12	Heel grip	Split Suede leather	1.0	1.2

Appendix - 3
GR No. UNF 0907/ C.R. 482/ Pol-4 dated 29th February, 2008

SPECIFICATION OF PATROLING SHOES

Patroling Shoes --

MATERIALS

A) Upper Material – PU coated fabric / textile for main part of upper, Matching fabric mesh for collar, plug and parts of quarter foam inside collar and tongue

1	Mud guard	1.2 to 1.6 mm P.U. synthetic
2	Eyestay	-do-
3	Quarter	-do-
4	Counter	-do-
5	Collar	-do-
6	Tongue	Olive green cordura with 4 mm lamination
7	Vamp	-do-
8	Quarter deco. & Collar	-do-
9	Foam Collar	Minimum 12mm PU foam
10	Tongue Foam	Minimum 5mm PU foam
11	Upper Thread	3 & 6 ply green breaking load more than 3.5 kg
12	Colour of the Shoe	As per the indent sample available in D-18
	Eyelets	No.200 brass (12 pieces per pair) 3 eyelets
	D-ring	Antique brass colour with female
	Reinforcement	a. Nylon tape – minimum 12mm black / olive
		b. Binding tape- minimum 2 mm black/ olive
		c. Reinforcement tape- minimum 12 mm under zigzag
		d. Intake tape- minimum 12 mm black/ olive
Lining Materials – Quarter lining and tongue lining of mesh looking fabric (Skin fit)		
1	Vamp lining	0.8mm + 0.1mm olive green skin fit
2	Tongue lining	-do-
3	Quarter lining	-do-
Insock – Spongy polymer, fabric surface towards foot		
	Socks full	Skin fit with minimum 2.5 mm EVA laminated
Lacing		
		110-115 cm of breaking load more than 50 kg –Lace 3-4 mm diameter, matching colour
		4 pairs of D-Rings per pair of shoe, metallic look
		3 pairs of eyelets per shoe, antique
		Fabric tape on the tongue, end looped for lacing to go through
Counter Stiffener		
		Thermoplastic material – Heat activated –1.2 ± 0.1mm thick
Sole		
	Direct injected PU sole	Polyester polyurethane density minimum 0.55-0.59 g /cc
	Sole thread – 6ply black	Breaking load more than 7 kg
	Stroble thread	2 ply normal
Insole		
	Woven cloth	1.8 ± 0.2 mm thick

REQUIREMENTS	
Shape & Design	
Laced design of boot upper	With tongue and plug
	Two colour look, general appearance of greenish brown Nordic forest look
	Visible part of lining is matching the upper
Soling pattern	The soling shall not include continuous lateral tread pattern for any other features, such as sharp corners at the base of the sole pattern, which may accelerate or cause premature crack formation.
	2. The design should be such that the sole will have adequate skid resistance with cleat height of minimum 5mm.
	3. The sole should be of bucket type with wail height more that 20mm at toe and more than 30 mm at heel. The sole will be formed by direct injection process on the lasted upper.
Hardness	The hardness shall be 50-60 shore A/ IRHD
Relative density of soling material	The relative density of the material after moulding shall be between 0.50 to 0.55gm/ cc
Bond-strength	
Upper / out sole bond strength	The bond strength when tested as per IS 15298 shall not be less than 3 N unless there is tearing of the material in which case the tearing strength shall not be less than 2N /mm.
Abrasion Resistance of sole	When tested as per specification IS 15298 the maximum volume loss shall not be more than 250 mm.
Hydrolysis test	The Boots shall be placed in High Humidity (100%) at a temperature 72 C for 5 days and then tested for whole shoe flexing for 100,000 cycles. No crack or damage to the footwear is acceptable.
Electrical Insulation	When measured in accordance with the method described in IS 15298 after conditioning in a dry and wet atmosphere, the electrical resistance shall be not less than 100 kO and not greater than 1000 MO
Heat insulation of sole complex	When footwear is tested in accordance with the method described in IS 15298, the temperature increase on the upper surface of the insole shall be not greater than 22 °C
Cold Insulation of sole complex	When footwear is tested in accordance with the method described in IS 15298, the temperature decrease on the upper surface of the insole shall be not more than 10 °C
Leg height	The height of boots shall be as agreed to between the purchaser and the supplier. The height shall be measured on inside at the back of the boots from the insole to the top including any flexible extension.
Recommended Back Height	110 ± 10 mm for size 07 Height of other size shall vary accordingly
Sampling and criteria for conformity	The method of sampling, drawing representative sample of the boots and the criteria for conformity shall be as prescribed in IS 6368: 1971.